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DATA ON HEAVY AND LIGHT INDUSTRIES AND ORE DEPOSITS
IN PROVINCES OF NORTHWEST AND IN JEHOL, 1950

Summary: This report gives some data for 1950 on heavy industries, ore deposits, and light industries of the five Northwest provinces (Shensi, Kansu, Ningsia, Tsinghai, and Sinkiang), and the ore deposits of Jehol Province. The number of plants, types of equipment, and amount of production, are given for the heavy industries of the five Northwest provinces.

Deposit areas, amount of deposits, and additional information are given for ore deposits in the Northwest provinces. Types of products, producing areas, and amount of yearly production are given for the light industries of the five Northwest provinces.

Types of ore, names of mines, quality of ore, and amount of deposits are given for the ore deposits in Jehol Province.

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I. INDUSTRIES OF THE FIVE NORTHWEST PROVINCES

Type of Industry	No of Plants	Equipment	Production	Notes
Oil	3	Unknown	5,910,206 gal/yr	Production figure includes gasoline, fuel oil, and petroleum. Shih-men Oil Fields in Kansu produced 5,647,366 gal; Yen-ch'an in Shensi produced 250,140 gal; Tu-shan-tzu Plant in Sinkiang produced 12,600 gal.
Electric Power	Unknown	Unknown	20,000 kw	15,000 kw consumed for industrial purposes
Machinery	5		4,000 sets of looms	The production figure refers to two Shensi plants. Plants in Lan-chou, Yen-ch'uan, Hsi-ning have not been completely repaired
Cotton Weaving	10	99,000 spindles; 1,493 looms	4,915 chien of thread and 56,200 bolts of cloth per yr	Plants are located at Sian and Pao-chi. Of the ten plants, two are publicly operated
Wool Weaving	3	2,200 spindles 60 looms 35 hand looms	30,682 kg of wool yarn; 7,424 meters of wool; 2,734 meters of rugs and carpets per mo	All plants are located at Lan-chou; production figures are only from two publicly operated plants
Wool Carding	2	Unknown	3,300 tons/mo	Plants in Lan-chou produced 3,000 tons; plants in Hsi-ning produced 300 tons
Flour	64	Unknown	535,500 bags/mo	The production figure given does not include two publicly owned plants and eight privately owned plants in Sian; six of the 64 plants mentioned produce 45,500 bags/mo

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Matches	10	Unknown	9,200 cartons/mo	
Chemical	8	Unknown	Soap, 86,000 cartons; Soda ash, 1,000 kg/mo	Figures are the total production of four publicly owned plants; production of others is unknown
Paper	2	Unknown	Unknown	The two plants are the Feng-wen Plant in Pao-chi, Shensi and the Ch'ang-chi Plant in Sinkiang
Cement	2	Unknown	70,000 kg/mo	Figure is for the Kansu Cement Company only, which at present is not in operation

II. MINERAL DEPOSITS OF THE FIVE NORTHWEST PROVINCES

<u>Deposit Areas</u>	<u>Deposits</u> (tons unless otherwise indicated)	<u>Notes</u>
1. Petroleum (Total)	200,000,500	99.5% of the total petroleum deposits in China
Sha-ch'e, K'o-shih-k'a-erh, Aksu, Kucha, in South Sinkiang. Sui-lai, Urumchi, Wu-su, Chuguchak, in North Sinkiang	120,000,000	
Tun-huang, East Yu-men, Chiu-ch'uan, Chang-yeh in Kansu	60,000,000	
Yen-ch'ang, Yen-an, Kan-ch'uan, Fu-hsien, I-chun, in North Shensi	20,000,000	Yen-ch'ang is the center of ore deposits
Min-ho in Tsinghai	500	

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2. Coal (Total)	106,400,000,000	Constitutes 40% of total coal deposits in China
Shen-mi, Yu-lin, T'ung-ch'uan, to Pai-shui in Shensi	71,160,000,000	Coal deposits in southern Shensi are negligible
Chuguchak, Ha-erh-pa-ha-t'ai, I-li, Urumchi, Ha-mi, Shan-shan, Turfan, in Sinkiang	31,900,000,000	Urumchi and Turfan have rich coal deposits
P'ing-lo, Wei-nung, Chung-wei, Chung-ning, T'ung-hsin, Yen-ch'ih, A-la-shan, in Ningsia	2,300,000,000	1.8 billion tons of anthracite
North of Ch'i-lien-shan, Lan-chou, Lung-tung, P'ing-han, in Kansu	850,000,000	
Ta-t'ung, Hsi-ning, Hualung, in Tsinghai	200,000,000	
3. Iron (Total)	90,000,000	5.5% of total iron deposits in China
Feng-hsien, Liu-pa, Luehyang, Chen-an, in South Shensi	37,800,000	
Fu-yuan, Fou-k'ang, Wu-su, T'a-yu, Turfan, Chen-hsi, Ch'en-lo, Ho-ching, in Sinkiang	34,000,000	

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P'ing-lo, Wei-nung, Chung-wei, Chung-ning, A-la-shan, in Ningsia 9,300,000

Chung-wei and Chung-ning have the best quality ore, containing 43%-67% iron

Ha-la-ha-yu, Wu-lan-hua-k'o Shan, Ch'ai-ta-mu Ho Basin, in Tsinghai 5,000,000

Kao-lan, Min-hsien, Ching-t'ai, Hui-ning, Yung-teng, Shan-tan, in Kansu 4,130,000

4. Salt (Total) Unknown

Sinkiang Unknown

Approximate production totaled 600,000 piculs

Al-la-shan-ch'i, Ch'a-han-pu-lu-k'o, Ya-pu-lai, in Ningsia Unknown

Raw material contains 83% to 97% of sodium chloride

Ch'a-k'a Ch'ih in Tu-lan-hsien, Tsinghai 300,000,000

Raw material contains 83% to 97% of sodium chloride and can supply the whole country for 120 years

Hua-ma-ch'ih, Ma-lien-ch'uan, in North Shensi Unknown

5. Gold (Total) 61,185,000 oz

Sharasume, Chuguchak, Ha-t'u-shan, Urumchi, Wu-su, Keriya, Karashav, Khotan, Ch'i-t'ai, Turfan, Wei-ning, Ch'ieh-wei, in Sinkiang 60,000,000 oz

Sharasume is the biggest gold producing area, -- 800 sq km. The heaviest gold nugget found to date weighed about 44 oz

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	T'ung-t'ien Ho and Ta-t'ung Ho basins in Tsinghai	570,000 oz	
	Yellow River Basin, Ta-t'- ung, Chuang-lang, in Kansu	490,000 oz	
	Han Chiang, Tan Chiang, Chia- ling Chiang basins in South Shensi	425,000 oz	
6.	Gypsum (Total)	600,000,000	Constitutes 80% of total gypsum deposits in China
	Yung-teng-hsien in Kansu. Aksu, T'a-k'o-la-k'o, Kucha, Pai-ch'eng	Unknown	
7.	Manganese		
	Lan-t'ien, Lin-t'ung, in Shensi. Kao-lan, Yung- teng, Ch'ing-shui, Lin- hsia, in Kansu. Chuguchak in Sinkiang	1,930,000	Can produce 374,400 tons of manganese
8.	White Marble		
	Ting-yuan-ying in Ningxia	3,800,000	Contains 35.5% magnesium
9.	Wolfram		
	Wen-ch'uan in Sinkiang	86,000,000	

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NOTE: The extent of the following deposits are unknown.

Iron: South of Chen-an in Shensi; Hsi-ning, Hua-lung, Li-tu, in Tsinghai; Pai-ch'eng, Ya-ha-a-li-k'o-erh-ka Shan, Yen-ch'i-k'u-erh-tai Shan, in Sinkiang

Silver: Chin-chi, Ting-yuan-ying, in Ningsia; Ch'ai-ta, Ch'ing-shih-yai in Tsinghai.

Aluminum: Ch'ieh-shih, Wu-ch'ia, Lo-p'u, Sha-ch'e, Khotan, Sharasume, Urumchi, in Sinkiang

Sulfur, Borax: Tu-lia in Tsinghai

Nitrate: Hsi-ning in Tsinghai

Graphite: O-hsien, Mei-hsien, Ch'eng-ch'eng, Ch'eng-ku, Yang-hsien, in Shensi

III. MAJOR LIGHT INDUSTRIES OF THE FIVE NORTHWEST PROVINCES, RAW MATERIAL ESTIMATE

<u>Product</u>	<u>Producing Areas</u>	<u>Yearly Production</u>	<u>Notes</u>
Cotton	Hsi-pei-kuan and Sinkiang	1,300,000 market piculs	
Wool		500,000 market piculs	
Leather		4,541,400 hides	
Lumber		500,000,000 ft	
Soda Ash		8,600 tons	Only at Shen-mu

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IV. ORE DEPOSITS IN JEHOI PROVINCE

Type of Ore	Name of Mines	Quality	Deposits (tons)
Coal	Ying-shou-ying Coal Mine	6,240 calories of heat generated	338,460,000
Mercury	Chou-chang-tzu Mercury Mine	Contains 4% mercury	1,000,000
Iron	Ta-miao Iron Mine	47% iron, 62% titanium, 2% vanadium	9,120,000
Manganese	Pa-chia-tzu Manganese Mine	40% manganese	50,000
Manganese, Wolfram	An-tzu-miao Manganese and Wolfram Mine	Unknown	44,000
Asbestos	Liu-ta-tzu Asbestos Mine		27,000
Crystal	Lung-hua Crystal Mine	Contains about 90% crystal	10,000,000

- NOTES : 1. Number of ore deposit areas within Jehol Province: gold, 366; coal, 428; manganese, 83; wolfram, 70; asbestos, 88; mercury, 7; lead, 34; iron, 39; crystal, 69; limestone, 47; other ores unknown
2. Number of ore deposit areas distributed within Jehol Province: Ch'ing-lung-hsien, 225; Pei-p'iao, 1,851; Chao-yang, 173; Hsing-lung, 128; other ores unknown

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